

## HPS-1000 "Super Stubby"

*More Light  
At The Core*



## Remotely Operated High Pressure Sodium Lighting System

### *What is "Super Stubby"?*

We've increased the versatility of our standard HPS-1000, high pressure sodium, lighting system, by mounting its lighthouse assembly to a short "stubby" platform and attaching two motorized positioning devices to its reflector. In this configuration, the lighthouse and reflector can be remotely positioned or adjusted via a remote control unit.

Nicknamed "Super Stubby", this modified version of the HPS-1000 incorporates the same 1000 watt, high pressure sodium bulb as the standard HPS-1000, spent fuel pool light. For the same power input HPS bulbs provide **eight times** the light output (140,000 lumens) of conventional incandescent bulbs, and last an average **ten times longer!**

Intrinsic to the design of the light's bulb assembly is a patented, outer quartz envelope, which has received universal acceptance by all of the major fuel manufacturers. The envelope acts as a protective thermal barrier that will not crack if the operating lamp is immersed in water. This allows "Super Stubby" to be used both in air, underwater, or during wet/dry operations.

"Super Stubby" provides optimum illumination for many refueling operations including disassembly of upper internals, head lift, general cavity lighting, and core reload. "Super Stubby" can also be used for remote viewing operations when equipped with a radiation tolerant camera.

### At a glance

- Remotely operated, adjustable reflector - allows light to be directed where it's most needed
- 1,000 watt high pressure sodium bulb provides 140,000 lumens - *Eight times brighter* than conventional incandescent light bulbs
- Patented, outer quartz envelope - provides thermal barrier which allows operating lamp to go from air into water without cracking

## "Super Stubby" - SPECIFICATIONS AT A GLANCE

### HPS-1000 Lighthouse Assembly (equipped w/two R-10 Rotators\*)

Power	1000 watts
Bulb	
Type	High pressure sodium w/outer quartz envelope potted into an electropolished stainless steel base
Light output	140,000 lumens
Size	
Lighthouse	813 H x 610 W mm (32 H x 24 W inches)
Baseplate	457 mm (18 inches) square
Weight	
In air	32.66 kg (72 lbs)
In water	28.60 kg (63 lbs)
Reflector	
Type	Linear parabolic
Adjustment	360 degrees vertically 240 degrees horizontal
Vertical beam	15 degrees to 50% levels
Horizontal beam	90 degrees to 50% levels
Full beam spread	120 x 120 degrees
Center intensity	150,000 candela
Material	Electropolished 304 stainless steel
Protective screen	Stainless steel
Connector	Underwater mateable
Operating depth	30 meters (100 feet)

### Ballast Power Supply (for in-air use only)

Power	1,000 watts
Voltage input	120/220 VAC, 60 Hz or 120/220/240 VAC, 50 Hz
Current	9.8 amps
Size	317.50 x 317.5 x 165 mm (12.5 x 12.5 x 6.5 inches)
Weight	16.3 kg (36 lbs)
Housing material	
Standard	Aluminum
Optional	Stainless steel
Input connector	Standard wall plug
Output connector	1) IL-3-FS 2) MS-3102A-18-01S

\* R-10, motorized positioner, specifications available on separate data sheet



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